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| <p align="center">NATIONAL PHASE UTILITY APPLICATION</p> <p align="center">Transmittal to the (DO/EO/US) Under 35 USC 371</p> | <p>Attorney Docket No.: CYTHERA.045NP First Named Inventor: D'Amour, Kevin A. Int'l Application No.: PCT/US2004/043696 Int'l Filing Date: December 23, 2004 Priority Date Claimed: December 23, 2003 Title: DEFINITIVE ENDODERM Express Mail Label No.: EV 465567683 US</p> |
| <p>Direct all correspondence to Customer No.: 46,273</p> <p align="right">Date: June 23, 2006 Page 1 of 2</p> | |

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The following enclosures are transmitted herewith to be filed in the patent application of:

Inventors:

1. D'Amour, Kevin A.
2. Agulnick, Alan D.
3. Baetge, Emmanuel E.

APPLICATION ELEMENTS:

- (X) This is a FIRST submission of items concerning a filing under 35 U.S.C. § 371.
- (X) A copy of the International Application as filed (35 U.S.C. § 371(c)(2)) is attached hereto.
- (X) An English translation of the International Application as filed is not required.
- (X) Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. § 371(c)(3)) have not been and will not be made.

OTHER APPLICATION PARTS:

- (X) Preliminary Amendment in 8 pages.
- (X) Sequence Submission Statement in 1 page, and
 - (X) Sequence Listing on paper in 2 pages
 - (X) Sequence Listing in CRF.
- (X) International Search Report and Written Opinion from PCT/US2004/043696.
- (X) Response to Written Opinion deemed informal from PCT/US2004/043696.
- (X) International Publication No. WO 2005/063971 A2.
- (X) Return Prepaid Postcard.

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| NATIONAL PHASE UTILITY APPLICATION Transmittal to the (DO/EO/US) Under 35 USC 371 | Attorney Docket No.: CYTHERA.045NP First Named Inventor: D'Amour, Kevin A. Int'l Application No.: PCT/US2004/043696 Int'l Filing Date: December 23, 2004 Priority Date Claimed: December 23, 2003 Title: DEFINITIVE ENDODERM Express Mail Label No.: EV 465567683 US |
| Direct all correspondence to Customer No.: 46,273 | |
| Date: June 23, 2006 Page 2 of 2 | |


FILING FEES:

The present application qualifies for Small Entity Status under 37 CFR 1.27.

| FEE CALCULATION | | | | |
|---|--------------|--------------|----------------------|--------------|
| FEE TYPE & DETERMINATION | | SMALL FEE | CALCULATION | TOTAL |
| Basic Filing Fee under 1.492(a) | | 2631 (\$150) | | \$150 |
| Search Fee under 1.492(b) <i>(enter one in TOTAL column)</i> | | | | |
| (1) USPTO was ISA/IPEA & claims satisfy Art. 33 (1)-(4) | | 2640 (\$0) | | \$200 |
| (2) USPTO was the ISA (noncompliant claims) | | 2641 (\$50) | | |
| (3) Foreign Search Report Enclosed | | 2642 (\$200) | | |
| (4) No Search Report Enclosed | | 2632 (\$250) | | |
| Examination Fee under 1.492(c) <i>(enter one in TOTAL column)</i> | | | | |
| (1) USPTO was ISA/IPEA & claims satisfy Art. 33 (1)-(4) | | 2643 (\$0) | | \$100 |
| (2) Non US IPEA or Noncompliant Claims | | 2633 (\$100) | | |
| Excess Claims | 38 - 20 = 18 | 2615 (\$25) | 18 x 25 = | \$450 |
| Excess Ind. Claims | 2 - 3 = 0 | 2614 (\$100) | 0 x 100 = | \$0 |
| Application Size Fee | 96 - 100 = 0 | 2681 (\$125) | 0 x 125 = | \$0 |
| | | | TOTAL FEE DUE | \$900 |
| TOTAL FEE PAID (If Different Than Fee Due) | | | | \$900 |

(X) A check in the amount of **\$900** to cover the Total Fee Due is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.


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NPHASE

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iAP20 Rec'd PCT/PTO 23 JUN 2006

Jerry L. Hefner, Ph.D.
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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**SUBMISSION BY "EXPRESS MAIL"**

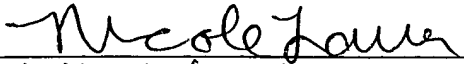
Attorney Docket No. : CYTHERA.045NP
Applicant(s) : D'Amour, et al.
For : DEFINITIVE ENDODERM
Attorney : Jerry L. Hefner
"Express Mail" Label No. : EV 465567683 US
Date of Deposit : June 23, 2006

The following documents are hereby placed into an Express Mail envelope bearing the number indicated above, which envelope is being deposited today with the U.S. Postal Service as Express Mail:

Transmittal letter; specification in 58 pages; 36 sheets of drawings; Sequence Listing in 2 pages; Sequence Submission Statement in 1 page; Sequence Listing in Computer Readable Format (CRF) Disk; Preliminary Amendment; International Publication No. WO 2005/063971 A2; International Search Report; Response to Written Opinion deemed informal; Check for Filing Fee; Return Prepaid Postcard.

The envelope, with the enclosures listed above, is addressed the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

This submission is being made in compliance with 37 CFR 1.10.


Name: Nicole Lauer
Docketing Agent